

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : UNI CHARM CORP

(22)Date of filing : 21.10.1994

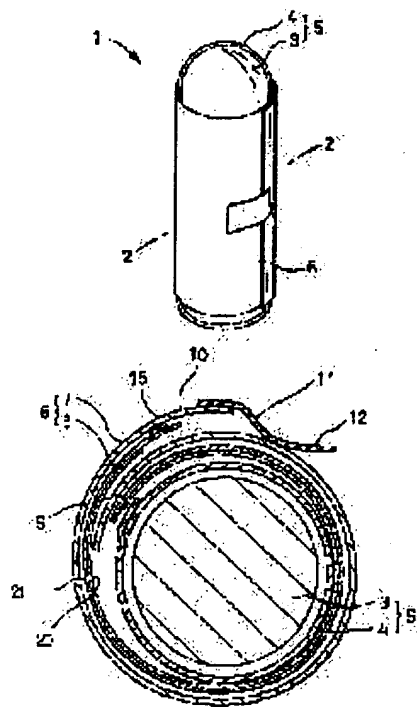
(72)Inventor : MURAKAMI MASAKI  
SHIMIZU SHINGO

## (54) SANITARY TAMPON

## (57)Abstract:

PURPOSE: To allow the easy insertion of a finger in a fingerstall used at the time of fitting a tampon by winding the mount-pasted fingerstall around a tampon body.

CONSTITUTION: A sanitary tampon 1 is formed out of a cylindrical tampon body 4 made of a compression molded strip type absorptive material such as cotton and rayon and covered with a plastic film 4, and a fingerstall member 6 wound around the body 5. Also, the member 6 is made of a mount 7 and a fingerstall detachably pasted thereto via a pressure sensitive adhesive 15. Furthermore, the member 6 is wound around the body 5 with the fingerstall 8 kept inside, using the forward end thereof as a starting point. The free end section 12 of a pressure sensitive adhesive tape 11 with one end fixed to the external surface of the terminal section of the mount 7, is detachably pasted to the external surface of the sanitary tampon 1. A tampon user holds, for example, the tampon 1 by her left hand, and peels the tape 11 by use of the right hand. As a result, a finger insertion hole is faced outside and a finger can be inserted in this state, or without unwinding the member 6 completely.



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[Date of extinction of right]

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MEANS

[Means for Solving the Problem] The place made into a means in order that this invention may solve the aforementioned technical problem is as follows.

[0007] The mainframe of a tampon which comes to carry out the squeezing molding of the absorptivity material at the circular cylinder-like field in this invention, It is premised on the tampon for physiology which consists of a finger condom member which comes to stick one side of the finger condom which prepared the finger insertion opening in the end on the pasteboard which counters with it possible [ sublation ] while the periphery of the plastics film of two sheets which you made it pile up each other's is joined. In such a premise, it is characterized by having twisted the aforementioned finger condom member around the peripheral surface of the aforementioned circular cylinder-like field, carrying out the aforementioned finger condom inside, and using the opposite edge of the aforementioned finger insertion opening as the starting point.

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TECHNICAL PROBLEM

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[Problem(s) to be Solved by the Invention] The tampon and finger condom by the aforementioned well-known technique are another field. A tampon user has the finger condom stuck on pasteboard in one hand, and inserts another digiti manus in the finger condom. Then, it has pasteboard in a tampon again and it is inserted in a vagina.

[0004] In an operation of these series, since the very pliant finger condom is stuck on pasteboard, such as a plastics film also with this pliant, there is a problem it is difficult to open the insertion opening of the finger condom greatly, and take time in an insertion of a finger. moreover, the thing for which it has pasteboard in a tampon again after finishing an insertion of a finger -- for example, when it will carry out in a narrow restroom, there is a problem are complicated

[0005] Then, this invention makes it the technical problem to solve the aforementioned problem by twisting around the peripheral surface of the mainframe of a tampon the finger condom stuck on pasteboard.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the tampon for physiology.

[0002]

[Description of the Prior Art] Conventionally, the tampon for physiology which comes to carry out the squeezing molding of the absorptivity material at the circular cylinder-like field is well-known. Moreover, it builds by piling up the plastics film of two sheets for the finger condom for this tamponage, and joining the mutual periphery section, and the technique which sticks the finger condom on pasteboard, such as a plastics film, possible [sublation] is indicated by JP,61-232845,A and JP,2-102221,U.

[0003]

[Problem(s) to be Solved by the Invention] The tampon and finger condom by the aforementioned well-known technique are another field. A tampon user has the finger condom stuck on pasteboard in one hand, and inserts another digiti manus in the finger condom. Then, it has pasteboard in a tampon again and it is inserted in a vagina.

[0004] In an operation of these series, since the very pliant finger condom is stuck on pasteboard, such as a plastics film also with this pliant, there is a problem it is difficult to open the insertion opening of the finger condom greatly, and take time in an insertion of a finger. moreover, the thing for which it has pasteboard in a tampon again after finishing an insertion of a finger -- for example, when it will carry out in a narrow restroom, there is a problem are complicated

[0005] Then, this invention makes it the technical problem to solve the aforementioned problem by twisting around the peripheral surface of the mainframe of a tampon the finger condom stuck on pasteboard.

[0006]

[Means for Solving the Problem] The place made into a means in order that this invention may solve the aforementioned technical problem is as follows.

[0007] The mainframe of a tampon which comes to carry out the squeezing molding of the absorptivity material at the circular cylinder-like field in this invention, It is premised on the tampon for physiology which consists of a finger condom member which comes to stick one side of the finger condom which prepared the finger insertion opening in the end on the pasteboard which counters with it possible [sublation] while the periphery of the plastics film of two sheets which you made it pile up each other's is joined. In such a premise, it is characterized by having twisted the aforementioned finger condom member around the peripheral surface of the aforementioned circular cylinder-like field, carrying out the aforementioned finger condom inside, and using the opposite edge of the aforementioned finger insertion opening as the starting point.

[0008]

[Function] Thus, in the constituted tampon for physiology, if the finger condom member which had it in the left hand and twisted it is solved on the right, since the finger insertion opening appears immediately, the right middle finger will be inserted there. Since the finger condom is in the status that have stuck one side on pasteboard and most twisted around the hard tampon, it can move only near [which solved and became free] the insertion opening, and can make the opening open greatly.

[0009]

[Example] It is as follows when it explains with reference to the drawing of appending of the detail of the tampon for physiology concerning this invention.

[0010] Drawings 1 and 2 are the perspective diagrams and the extention mimetic diagrams of a 2-2

line cross section of the tampon for physiology 1. The tampon for physiology 1 consists of a mainframe 5 of a tampon which comes to cover with the plastics film 4 the circular cylinder-like field 3 which carried out the squeezing molding of the band-like absorptivity materials, such as a gossypium and rayon, and a finger condom member 6 twisted around the peripheral surface of a mainframe 5. The detailed structure of the mainframe 5 of a tampon is the same as that of it which was indicated by JP,42-14400,B and JP,48-41637,B, and although not illustrated, it is suitably equipped with the string for drawers of a length. The finger condom member 6 consists of pasteboard 7 and the finger condom 8 stuck on it possible [sublation] through the binder 15, makes the point 9 of the finger condom 8 the starting point for the finger condom 8 inside, and has twisted it around the mainframe 5. In pasteboard 7, the free edge 12 of the adhesive tape 11 which fixed the end on the superficies of the trailer 10 is stuck on the peripheral surface of the tampon for physiology 1 possible [sublation].

[0011] Drawing 3 is a plan of the developed finger condom member 6. The finger condom 8 piles up the thin and pliant plastics films 20 and 21 of two sheets which imitated the configuration of a finger, welds the mutual periphery section, and joins them, and only few fractions 18 have extended the lower film 21 outside by the finger insertion opening 17 which counters the point 9 of a finger. Pasteboard 7 is made of the charges of a web material, such as paper and a plastics film, and is a little larger than the finger condom 8. The finger condom 8 is stuck possible [sublation of the field which counters with the pasteboard 7 of a fraction 18].

[0012] Drawing 4 exfoliates an adhesive tape 11 in the tampon for physiology 1 of drawing 1, and the status that only a few solved the finger condom member 6 is shown. The user of the tampon for physiology 1 inserts a finger, without all dispelling the status 6, i.e., a finger condom member, since the finger insertion opening 17 faces outside immediately, if it has it in a left hand and an adhesive tape 11 is exfoliated on the right. In the status of drawing 4, when inserting a finger, the fraction 18 of the lower film 21 can open the insertion opening 17 easily and greatly, if the finger point is applied to the finger insertion opening 17 although the finger condom 8 and the pasteboard 7 are pliant, since the fraction which does not stick and move to pasteboard 7 and has been twisted around the mainframe 5 of the finger condom member 6 naturally does not move, either.

[0013] In addition, in the finger condom 8, the up-and-down films 20 and 21 can also be made into isomorphous Doshisha University.

[0014]

[Effect of the Invention] In the tampon for physiology concerning this invention, since the finger insertion opening is faced outside shortly after twisting around the mainframe of a tampon the finger condom member which comes to stick the finger condom on pasteboard and solving the member, time is not taken in a series of operation from an insertion of a finger to tampon wear. Since especially the finger insertion opening is opened easily and greatly, an insertion of a finger becomes very easy.

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CLAIMS

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[Claim(s)]

[Claim 1] While the periphery of the plastics film of two sheets on top of which the absorptivity material was laid with the mainframe of a tampon which comes to carry out squeezing molding at the circular cylinder-like field is joined In the tampon for physiology which consists of a finger condom member which comes to stick one side of the finger condom which prepared the finger insertion opening in the end on the pasteboard which counters with it possible [ sublation ] The aforementioned tampon for physiology characterized by having twisted the aforementioned finger condom member around the peripheral surface of the aforementioned circular cylinder-like field, carrying out the aforementioned finger condom inside, and using the opposite edge of the aforementioned finger insertion opening as the starting point.

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**EXAMPLE**


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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] The perspective diagram of the tampon for physiology.

[Drawing 2] The extention mimetic diagram of the 2-2 line cross section of drawing 1 .

[Drawing 3] The plan of a finger condom member.

[Drawing 4] The side elevation of the tampon for physiology of the status that the finger condom member was solved.

[Description of Notations]

1 Tampon for Physiology

3 Circular Cylinder-like Field

5 Mainframe of Tampon

6 Finger Condom Member

7 Pasteboard

8 Finger Condom

9 Point

17 Finger Insertion Opening

20, 21 Film

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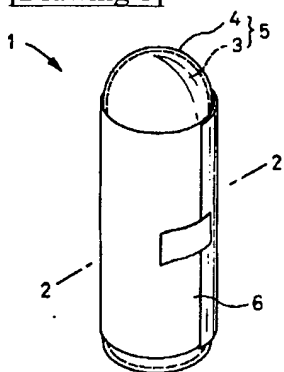
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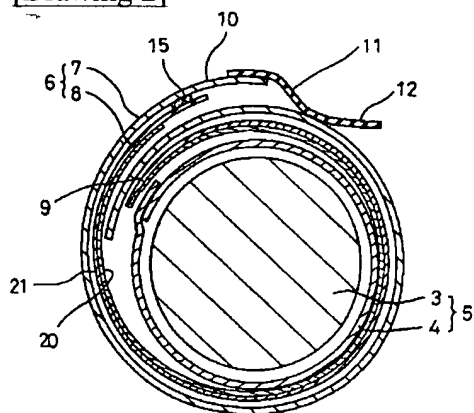
**DRAWINGS**

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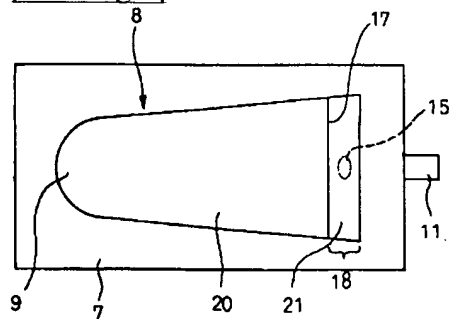
[Drawing 1]



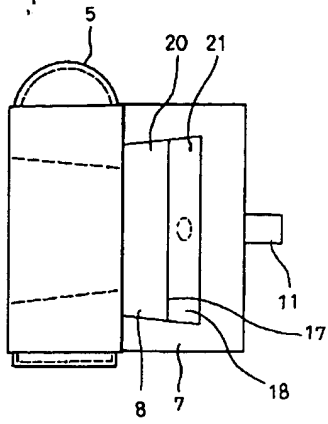
[Drawing 2]



[Drawing 3]



[Drawing 4]



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[Translation done.]

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(11) 特許出願公開番号

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(22) 出願日 平成6年(1994)10月21日

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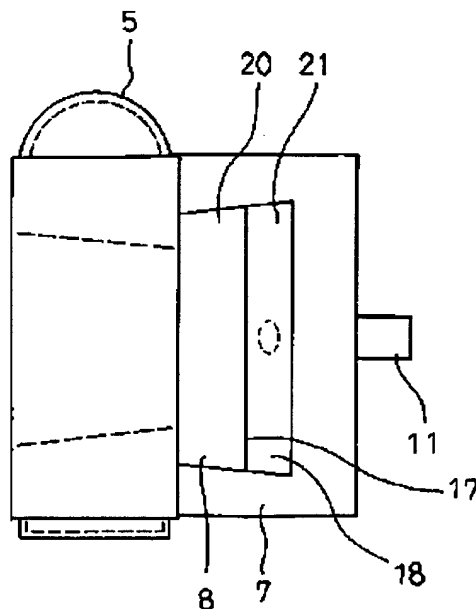
(74) 代理人 弁理士 白坂 吉治

(54) 【発明の名称】 生理用タンポン

(57) 【要約】

【目的】 タンポン着用の際に使用する指サックへの指の挿入を容易にする。

【構成】 台紙7に指サック8を剥離可能に貼着してなる指サック部材6を、指サック8を内側にし、かつ、サックの指挿入口17の対向端を始点として円柱状体のタンポン本体5に巻き付ける。



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【特許請求の範囲】

【請求項1】吸収性素材を円柱状体に圧搾成形してなるタンポン本体と、重ね合わせた2枚のプラスチックフィルムの周縁を接合するとともに、一端に指挿入口を設けた指サックの片面をそれと対向する台紙に剥離可能に貼着してなる指サック部材とからなる生理用タンポンにおいて、

前記指サックを内側にし、かつ、前記指挿入口の対向端を始点として前記指サック部材が前記円柱状体の周面に巻き付けてあることを特徴とする前記生理用タンポン。

【発明の詳細な説明】

【0001】

【産業上の利用分野】この発明は、生理用タンポンに関する。

【0002】

【従来の技術】従来、吸収性素材を円柱状体に圧搾成形してなる生理用のタンポンは公知である。また、このタンポン挿入のための指サックを2枚のプラスチックフィルムを重ね合わせて互いの周縁部を接合することにより作り、その指サックをプラスチックフィルム等の台紙に剥離可能に貼着する技術が特開昭61-232845号公報や実開平2-102221号公報に開示されている。

【0003】

【発明が解決しようとする課題】前記公知技術によるタンポンと指サックとは、別体である。タンポン使用者は、一方の手に台紙に貼着した指サックを持ち、もう一方の手の指をその指サックに挿入する。その後、台紙をタンポンに持ち替えて、それを陰に挿入する。

【0004】これら一連の動作において、きわめてしなやかな指サックが、これもまたしなやかなプラスチックフィルム等の台紙に貼着してあるから、指サックの挿入口を大きく開くことが難しく、指の挿入に手間取るという問題がある。また、指の挿入を終えたのち台紙をタンポンに持ち替えたりすることが、例えば狭い手洗いの中ですることとなると、繁雑であるという問題がある。

【0005】そこで、この発明は、タンポン本体の周面に台紙に貼着した指サックを巻き付けることにより、前記問題を解決することを課題にしている。

【0006】

【課題を解決するための手段】この発明が前記課題を解決するために手段とするところは、以下のとおりである。

【0007】この発明においては、吸収性素材を円柱状体に圧搾成形してなるタンポン本体と、重ね合わせた2枚のプラスチックフィルムの周縁を接合するとともに一端に指挿入口を設けた指サックの片面をそれと対向する台紙に剥離可能に貼着してなる指サック部材とからなる生理用タンポンを前提とし、かかる前提において、前記指サックを内側にし、かつ、前記指挿入口の対向端を始

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点として前記指サック部材が前記円柱状体の周面に巻き付けてあることを特徴としている。

【0008】

【作用】このように構成した生理用タンポンにおいては、それを例えば左手に持ち、巻き付けた指サック部材を右手で解くと、すぐに指挿入口が現れるから、そこに右手の中指を挿入する。指サックは、片面が台紙に貼着してあり、また大部分が硬いタンポンに巻き付けた状態にあるから、解けて自由になった挿入口近傍だけを動かして口を大きく開かせることができる。

【0009】

【実施例】この発明に係る生理用タンポンの詳細を添付の図面を参照して説明すると、以下のとおりである。

【0010】図1、2は、生理用タンポン1の斜視図とその2-2線断面の拡大模式図である。生理用タンポン1は、綿、レーヨン等の常伏吸収性素材を圧搾成形した円柱状体3をプラスチックフィルム4で被覆してなるタンポン本体5と、本体5の周面に巻き付けた指サック部材6とで構成されている。タンポン本体5の詳細構造は、例えば特公昭42-14400号公報や特公昭48-41637号公報に開示されたそれと同じであって、図示してはいないが適宜長さの引き出し用紐を備えている。指サック部材6は、台紙7と、それに粘着剤15を介して剥離可能に貼着した指サック8とからなり、指サック8を内側に、指サック8の先端部9を始点として本体5に巻き付けてある。台紙7において、その終端部10の外面に一端を固着した粘着テープ11の自由端部12が生理用タンポン1の周面に剥離可能に貼着してある。

【0011】図3は、展開した指サック部材6の平面図である。指サック8は、指の形状に倣った薄手でしなやかな2枚のプラスチックフィルム20、21を重ね合わせ、互いの周縁部を溶着して接合したものであり、指の先端部9に対向する指挿入口17では、下側のフィルム21を僅かな部分18だけ外へ延ばしてある。台紙7は、紙やプラスチックフィルムなどのシート材料でできしており、指サック8よりもやや大きい。指サック8は、部分18の台紙7と対向する面が剥離可能に貼着してある。

【0012】図4は、図1の生理用タンポン1において、粘着テープ11を剥離し、指サック部材6を少しだけ解いた状態を示す。生理用タンポン1の使用者は、例えば左手にそれを持ち、右手で粘着テープ11を剥離すると、すぐに指挿入口17が外に臨むから、その状態で、すなわち指サック部材6を全部解いてしまうことなく、指を挿入する。図4の状態において、指を挿入するときに下側のフィルム21の部分18は、台紙7に貼着していて動くことがなく、また指サック部材6の本体5に巻き付けてある部分も当然動くことがないから、指サック8と台紙7とがしなやかであるにもかかわらず、指

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挿入口17に指先を当てると、挿入口17を容易にしかも大きく開くことができる。

【0013】なお、指サック8において上下のフィルム20、21を同形同大にすることもできる。

【0014】

【発明の効果】この発明に係る生理用タンポンにおいては、台紙に指サックを貼着してなる指サック部材をタンポン本体に巻き付け、その部材を解くとすぐに指挿入口が外に臨むようにしてあるから、指の挿入からタンポン着用手までの一連の操作に手間取ることがない。特に、指挿入口は容易にしかも大きく開くから、指の挿入がきわめて容易になる。

【図面の簡単な説明】

【図1】生理用タンポンの斜視図。

\*【図2】図1の2-2線断面の拡大模式図。

【図3】指サック部材の平面図。

【図4】指サック部材を解いた状態の生理用タンポンの側面図。

【符号の説明】

1 生理用タンポン

3 円柱状体

5 タンポン本体

6 指サック部材

7 台紙

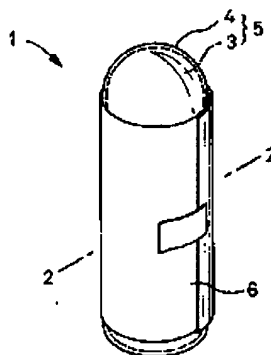
8 指サック

9 先端部

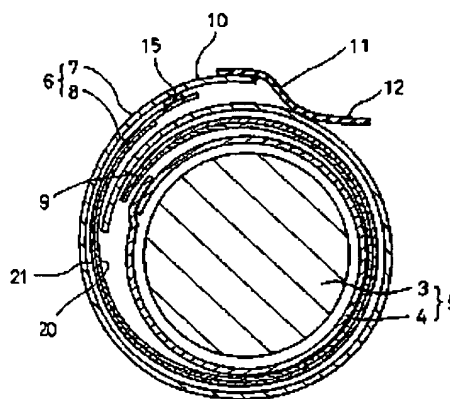
17 指挿入口

\* 20、21 フィルム

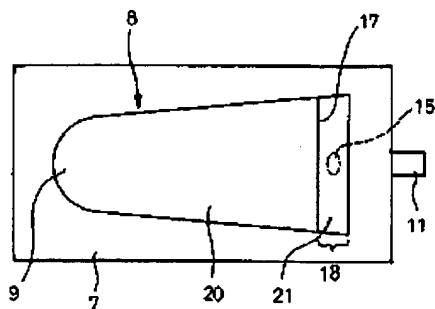
【図1】



【図2】



【図3】



【図4】

